SS11E™

USER MANUAL

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SAFETY WARNINGS

- To prevent short circuits, this product should only be used inside and only in dry spaces. Do not expose the components to rain or moisture. Do not use the product close to a bath, swimming pool etc.
- Do not expose the components of your systems to extremely high temperatures or bright light sources.
- In case of improper usage or if you have altered and repaired the product yourself, all guarantees expire. Marmitek does not accept responsibility in the case of improper usage of the product or when the product is used for purposes other than specified. Marmitek does not accept responsibility for additional damage other than covered by the legal product responsibility.
- This product is not a toy. Keep out of reach of children.
- Do not open the product (battery panel excepted): the device may contain live parts. The product should only be repaired or serviced by a qualified expert.
- Keep batteries out of the reach of children. Dispose of batteries as chemical waste. Never use old and new batteries or different types of batteries together. Remove the batteries when you are not using the system for a longer period of time. Check the polarity (+/-) of the batteries when inserting them in the product. Wrong positioning can cause an explosion.
- Automatic switching devices provide comfort, but can also be dangerous. They can surprise people or can ignite clothing hanging over an electric heat source. Please be careful and take appropriate measures to avoid accidents.

HOW DOES MARMITEK X-10 WORK?

Marmitek X-10 components use the existing mains wiring to communicate (using Marmitek X-10 signals). You can build a complete system using the three different kind of components of the Marmitek X-10 System:
1. Modules: These components will receive Marmitek X-10 signals and will switch or dim the attached lamp or appliance. Examples of these modules are lamp modules and appliance modules. These are available as build-in, micro, DIN rail and plug-in modules.
2. Controllers: These components will transmit Marmitek X-10 signals and thus will control the Modules.
3. Transmitters:Wireless components like remotes. The signals of these components will be received by a controller with transceiver functionality (IRRF 7243, TM13, CM15Pro…..). The Transceiver will translate the signals into Marmitek X-10 signals on the power line.

ADRESSES

Up to a maximum of 256 different addresses can be preset. These are subdivided into a so-called HouseCode (A to P incl.) and a UnitCode (1 to 16 incl.). The HouseCode can also be set on the controllers, so that the controllers and modules become part of the same system. The address can be set either using code dials or by pressing buttons, depending on the type of module.
The Marmitek X-10 System uses standard commands, which control all units with the same HouseCode at the same time (e.g. all lights on, all units off, etc.).

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SIGNAL RANGE

Range of Marmitek X-10 signals over the Power Line and how to increase the range.

The Marmitek X-10 System is based on power line communication. The range of the Marmitek X-10 signals very much depends on the local circumstances. On average the range is a cable length of 80 meters.

If you have difficulties with the range of your Marmitek X-10 signals, please pay attention to the following facts:

1. When more than one phase is used for your electrical system, it is necessary to couple these phases for the Marmitek X-10 signals. For coupling you can use FD10 Phase Couplers/Filters. You only need to install a Phase Coupler/Filter when your wall outlets and light switches are divided over more than one phase (more than one group is no problem). For bigger buildings or longer distances we advice you to use an active repeater instead of passive FD10's.
2. It is possible that Marmitek X-10 signals are attenuated by devices and lights which are connected to the power line. In a normal home situation this effect is negligible (the Marmitek X-10 system is using active gain control to eliminate the effects). However, it is possible that a particular device in your house is attenuating the signals so much that the range of Marmitek X-10 signals is decreased significantly. When you have range problems, it is wise to try to locate the device which is attenuating the signals simply by unplugging devices from the power line, and testing the differences in range for your Marmitek system. When e.g. your conclusion is that e.g. your computer monitor is attenuating the signal, you can use a FM10

Plug-in Filter between the power line and the monitor to eliminate the effects.

Known devices which can cause attenuation are:

PC Monitors
PCs with heavy internal power supplies
Old Televisions
Copiers
Fluorescent Lights
Gas Discharge Lamps (Energy Saving Lamps)

3. Some (old) devices are able to disturb the signal by transmitting noise on the power line. Because the Marmitek X-10 signals are transmitted on 120 kHz, only noise on or near this frequency will have influence on the range. When you use a FM10 Filter to connect this device to the power line, the noise will be filtered.
4. The Marmitek X-10 protocol has several mechanism to avoid modules to be switched on or off by other sources than your Marmitek X-10 Controllers. However, it is possible that the Marmitek X-10 signals are disturbed by e.g. baby phones which are in TALK mode (continuous transmission). When these kind of signals are present on the power line it is possible that the Marmitek X-10 signals will not come through.
5. The mains do not stop at the front door of your home. Everything that is attached to mains nearby your home can have influence on Marmitek X-10 signals (e.g. heavy machinery). If you think that your system is influenced by devices out of your house, it is advisable to install FD10 Phase Coupler/Filter on each phase entering the house. These filters will block signals coming into or going out of your house, but will also match the impedance for the mains. Hereby make your house Marmitek X-10 compatible for these units. The FD10's will not only filter but will also couple the phases (please see 1).

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INSTRUCTIONS FOR USE SS11™ WIRELESS SWITCH

INTRODUCTION

Congratulations buying the Marmitek X-10 SS11 wireless switch. This is a super thin, elegant wireless switch. It is the ideal solution for situations where an extra switch is needed without installing wires. It is to install on walls, glass, doors tables etc. and transmits high frequent signals through walls and ceilings. The SS11 wireless switch transmits radio graphical signals to an X-10 Transceiver TM13, IRRF7243 or Marmitek X-10 Alarm station. Then the Transceiver or Station transmits these signals via the in your house already installed electric wiring. Through this you can switch on and off your lighting (or apparatus) connected to X-10 receivers (lighting can be dimmed also). The SS11 is completely wireless and battery powered.

PROPERTIES

The switches are delivered standard at HouseCode A.

CHANGE OF THE HOUSECODE

1. Press the button ON and keep it pressed. The red LED flashes shortly. After 15 seconds the present set-up is shown: 1 flash is HouseCode A, 2 flashes is HouseCode B etc.
2. Release the button ON.
3. Now press shortly for the desired HouseCode on the same ON button (1x = A, 2x = B etc). The LED flashes every time you press the button.
4. At the last time keep the button pressed. After 3 seconds the LED shows the set-up HouseCode. Now release the button.

CHANGE OF THE UNITCODE

1. Press the OFF button and keep it pressed. The red LED flashes shortly. After 15 seconds the present set up is shown: 1 flash is UnitCode 1, 2 flashes is UnitCode 2 etc.
2. Release the OFF button.
3. Now press shortly for the desired UnitCode on the same OFF button (1x = 1; 2x = 2 etc.) The Led flashes every time you press the button.
4. At the last time keep the button pressed. After 3 seconds the LED shows the set-up UnitCode. Now release the button.

CHANGE OF THE BATTERY

Remove the rocker switch at the front of the SS11 and replace the battery.
Use an identical 12V Alkaline battery (type A23). Mind the polarity when replacing.

APPLICATIONS

With the Marmitek X-10 SS11 wireless switch you can activate pre-programmed macros in the CM15Pro computer interface.
You can also use the SS11 as a central operation panel for your Marmitek installation.

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FREQENTLY ASKED QUESTIONS

What is the reason for modules to switch on/off spontaneously?

It is possible that a Marmitek X-10 System is installed at one of your neighbours using the same HouseCode. To solve this problem try to change the HouseCode of your system, or have FD10 Phase Coupler/Filter installed at your incoming mains.

My modules will not respond to my controller.

Make sure that the HouseCode on all Modules and Controllers are set to the same HouseCode (A .. P).

My modules will not react to my remote / sensor.

When you use a remote or sensor, you should have at least one Transceiver or Marmitek Security Console installed in your house. These components will translate the radio signals to the Marmitek X-10 signal on the power line. Only one Transceiver should be installed for all remotes and sensors set to the same House Code.

The other modules do not respond to signals of the SS11. What can be the problem?

• Check if the SS11 has been set-up correctly. The easiest way to do this is to give again the correct HouseCode to the top button.

• Has the battery been placed correctly?

• The SS11 uses a Transceiver module (TM13, IRRF7243 or one of the Marmitek X-10 alarm stations). Check if it works properly, for instance to use another remote control.

• Maybe the range of the SS11 is not sufficient for your purpose; if so, when using a TM13, place an extra TM13 in the neighbourhood of your SS11.

Do you still have questions? Please check out www.marmitek.com for more information.

TECHNICAL DATA

Supply:	1 x A23 12V Alkaline Battery (supplied)
RF range:	Up to 30m free field, up to 20m through walls and ceilings
RF frequency:	433,92 MHz
RF power:	10mW
X-10 Key codes:	On, off, dim, bright
Ambient temperature:	- 10° C to + 50° C (operation) - 20° C to + 70° C (storage)
Dimensions:	80 x 80 x 20 mm

Environmental Information for Customers in the European Union

European Directive 2002/96/EC requires that the equipment bearing this symbol on the product and/or its packaging must not be disposed of with unsorted municipal waste. The symbol indicates that this product should be disposed of separately from regular household waste streams. It is your responsibility to dispose of this and other electric and electronic equipment via designated collection facilities appointed by the government or local authorities. Correct disposal and recycling will help prevent potential negative consequences to the environment and human health. For more detailed information about the disposal of your old equipment, please contact your local authorities, waste disposal service, or the shop where you purchased the product.

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DECLARATION OF CONFORMITY

Hereby, Marmitek BV, declares that this SS11 is in compliance with the essential requirements and other relevant provisions of the following Directives:

Directive 1999/5/EC of the European Parliament and of the Council of 9 March 1999 on radio equipment and telecommunications terminal equipment and the mutual recognition of their conformity

Directive 2004/108/ec of the european parliament and of the council of 15 December 2004 on the approximation of the laws of the Member States relating to electromagnetic compatibility

Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003 on the restriction of the use of certain hazardous substances in electrical and electronic equipment

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